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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/005,573	12/06/2001	Jean Viaud	08987-US	7998
7590	11/10/2004		EXAMINER	
Jimmie R. Oaks Patent Department DEERE & COMPANY One John Deere Place Moline, IL 61265-8098			ALBERTALLI, BRIAN LOUIS	
			ART UNIT	PAPER NUMBER
			2655	
			DATE MAILED: 11/10/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/005,573	VIAUD, JEAN
	Examiner	Art Unit
	Brian L Albertalli	2655

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- . Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on _____.
- 2a) This action is **FINAL**. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-5 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-5 is/are rejected.
- 7) Claim(s) 2 and 4 is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____.
3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>12/6/01</u> .	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
	6) <input type="checkbox"/> Other: _____.

DETAILED ACTION

Claim Objections

1. Claims 2 and 4 are objected to because of the following informalities:
 - a) In claim 2, line 1, after "claim" insert --1--.
 - b) In claim 4, line 1, delete "a".

Appropriate correction is required.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

3. Claims 1-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over DenBraber et al. (U.S. Patent 6,131,061), in view of Fujioka et al. (Japanese Patent Application 2000-56827).

In regard to claim 1, DenBraber et al. discloses a combination of a tractor (Fig. 1, work machine 100) and a loader mounted on the tractor (implement 110) and including at least one load bearing member (bucket 150) mounted for being raised and lowered by operation of at least one powered device (hydraulic cylinders 170, 180, 190) coupled to the load bearing member, the improvement comprising: an adjusting device (Fig. 2, controller 200) coupled to said powered device and being operable for either lifting or

lowering said load bearing member in response to receiving appropriate control signals (operator control device 280 provides input to controller 200, which moves the implement 110, column 4, lines 3-9).

DenBraber et al. further acknowledges that speech recognition devices can be used as input devices (column 4, lines 14-17).

DenBraber et al. does not disclose that a speech recognition device is coupled to said adjusting device for transmitting said appropriate control signals thereto in response to receiving appropriate voice commands from an operator.

Fujioka et al. discloses a speech recognition device (Fig. 1, 221) which is in communication with an adjusting device (operation command converting means 222) for transmitting said appropriate control signals thereto in response to receiving appropriate voice commands from an operator (speech instruction recognizing means 221 recognizes a speech instruction and operation converting means 222 converts the recognition result to an operation command for construction machine 10, page 3, lines 5-11).

It would have been obvious to one of ordinary skill in the art at the time of invention to modify the control operator device 280 of DenBraber et al. to include a speech recognizer to control the operation of the implement 110, since this would ensure both hands of the user could remain on the steering wheel, which increases the safety for the user.

In regard to claim 2, DenBraber et al. discloses a position sensing device (position sensor system 220) mounted for sensing the position of said load bearing member (bucket 150) and producing a position signal representative of said position; said sensing device being coupled to said adjusting device (controller 200) for halting movement of said load bearing member at a pre-selected position (allowable implement movement data values) corresponding to said position signal (position sensors 240a, 240b, and 240c return information to controller 200 through implement signal 245, column 3, lines 21-23; the position of the implement 110 is halted before leaving the space of allowable implement movement, column 5, lines 41-49).

In regard to claim 4, neither DenBraber et al. nor Fujioka et al. disclose an activating device coupled to said speech recognition device for selectively activating the latter.

Official notice is taken that it is notoriously well known and recognized in the art to include an activating device with a speech recognition device when a speech recognition device is going to be used in a high noise environment. A speech recognition device mounted on a tractor would be subject to substantial engine noise, wind noise, and noise generated by the load-bearing device striking the ground.

It would have been obvious to one of ordinary skill in the art at the time of invention to further modify the combination of DenBraber et al. and Fujioka et al. to include an activating device coupled to the speech recognition device, since, as is well

known in the art, a manual activating device significantly decreases the number of incorrect recognition results that occur in a high noise environment.

In regard to claim 5, the combination of DenBraber et al. and Fujioka et al., as discussed in reference to claim 1, discloses in Fujioka et al. that the adjusting device includes a manually-operable device (backup remote control units 201) for effecting the operation of said powered device exclusive of said recognition device (backup remote control unit 201 is used to execute manual operation of construction machine 10, page 10, lines 2-5).

4. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over DenBraber et al., in view of Fujioka et al., and further in view of Duvall (U.S. Patent 5,704,008).

In regard to claim 3, the combination of DenBraber et al. and Fujioka et al., as discussed in reference to claim 1, discloses in Fujioka et al. that the speech recognition device includes a memory (storage means 221B, page 3, lines 22-25).

Neither DenBraber et al. nor Fujioka et al. disclose that the memory stores information by which different operators are identified, with said speech recognition device sending out control signals only in response to voice commands of a recognized operator.

Duvall discloses a system for a vehicle that recognizes the voice of a recognized operator (owner) and only activates the vehicle in response to the commands of a recognized user (column 4, lines 57-64).

It would have been obvious to one of ordinary skill in the art at the time of invention to further modify the combination of DenBraber et al. and Fujioka et al. to only send out control signals in response to the voice commands of a recognized user in order to prevent unauthorized users from controlling the load bearing member, who may not be properly trained on the particular tractor, thereby ensuring the safety of the user and others around the tractor.

Conclusion

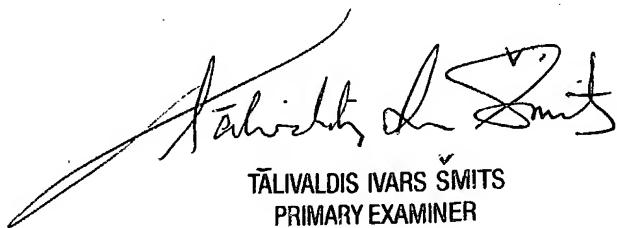
5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Furuta (U.S. Patent Application Publications 2002/0150267 and 2002/0152079) are intervening references that disclose a speech recognition control device for controlling a boom on an excavator. Taubkin et al. (U.S. Patent 5,774,858) discloses an additional device for only allowing control of a vehicle when a specific user is identified by a speech recognition device. Struck et al. (U.S. Patent 5,524,368) discloses a snowplow attachment that is controlled through a voice-activated remote. Fujitsu (Japanese Patent Application 07187562) discloses a crane system that is controllable through speech recognition. Nonaka et al. (Japanese Patent 360120411) discloses a crane controller utilizing speech recognition that includes an activation device.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian L Albertalli whose telephone number is (703) 305-1817. The examiner can normally be reached on Mon - Fri, 8:00 AM - 5:30 PM, every second Fri off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Talivaldis Smits can be reached on (703) 305-3011. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

10/27/04



TALIVALDIS IVARS SMITS
PRIMARY EXAMINER